

# EXPLORATORY BORING LOG

Ultramar Station No. 700 **Project Name:** 

7898 Old Redwood Highway

Cotati, California

Project Number: 3-30055-32

Boring No. MW-20

Date Drilled: 7/31/91

Logged By: N. L. Nack

Depth (ft.)	Sample No.	Blows/Foot	Unified Soil Classification	SOIL DESCRIPTION	Water Level	OVM Reading (ppm)
				4 inch asphalt, 8-9 inch agregate base		
2 -			CL	FILL-SANDY CLAY, brown (10YR 4/3) with gravel, sand ~20%, gravel ~30%, friable, stiff, damp		0.0
3 - 4 -		16	CL/ ML	SILTY CLAY, dark brown (10YR 3/3), silt ≈40-50%, sand ≈10%, rootlets, reddish staining, soft, moist		
- 5 - - 6 -				- increase in clay content		
7 - 8 -		26	CL	CLAY, light olive gray (5Y 6/2), silt =30%, sand =30%, sand =15-20%, stiff, damp to slight moist		
- 9 L - 10 -			SM	SILTY SAND, grayish brown (2.5Y 5.2), silt =30-40%, fine to medium grained, subangular, mañcs damp to slight moist, moderately dense		0.0
- 11-	1		```			
- 12 - 13			CL	CLAY, grayish brown (2.5Y 5/2), silt ≈30%, sand ≈5%, stiff, moist		11.9
- 14 - 15	20-1	31		- increasing sand content		
- 16 · · · · · · · · · · · · · · · · · ·			SP	POORLY GRADED SAND, black, (5Y 2.5/1), medium grained, moderately dense, very moist to saturated	_ ▼	
- 19 - 20	-	11	CL	SLITY CLAY, dark grayish brown (2.5Y 4/2) silt ≈30-40%, sand ≈5% rootholes, gray clay films, stiff, moist	<b>!</b>	412
21			SPSV	v	- □	

REVIEWED BY R.G.JC.E.G. CUMP UEG 1262

Page 1 of 2



## EXPLORATORY BORING LOG

Project Name: Ultramar Station No. 700

Project Number: 3-30055-32

7898 Old Redwood Highway

Cotati, California

Boring No. MW-20

Date Drilled: 7/31/91

Logged By: N. L. Nack

Depth (ft.)	Sample No.	Blows/Foot	Unified Soil Classification	SOIL DESCRIPTION	Water Level	OVM Reading (ppm)
- 22 - 23 - 24 - 25 - 26 - 27 - 27 -	20-3	22	SP/SW	POORLY GRADED SAND, very dark gray (2.5YN 3/3), medium grained with pockets of well graded sand, loose, saturated  SILTY CLAY, olive brown (2.5Y 4/4), silt =40-50%, sand=5%, medium stiff, very moist  SILTY SAND, dark grayish brown (2.5Y 4/2), silt =40%, clay =10-20%, pockets of poorly graded sand, moderately dense, saturated		33
- 28 - 29 - 30 - 31 - 32 - 33		22	CL/	SILTY CLAY, olive brown (2.5Y 4.4) silt ≈30-40%, sand ≈15%, soft, pockets of poorly graded sand, saturated  - 4-6 inch thick interbeds of poorly graded sand, clayey/silty clay		0.0
- 34 - 35 - - 36 - - 37 - - 38 - - 39 -		14	SC CL/CH	CLAY, block (5Y 2.5/1), silt =30%, slicks, damp, to slightly moist very stiff  CLAYEY SAND, black (5YL 5.1) clay =15%, dense, very moist  CLAY, black (5Y 2.5/1) sand =20%, silt =30%, soft, moist		0.0
- 41 - 42		26		Bottom of Boring 41-1/2 feet Groundwater encountered at 20 feet	-	0.0

REVIEWED BY R.G.JC.E.G. CHIPCEG 1262

Page 2 of 2

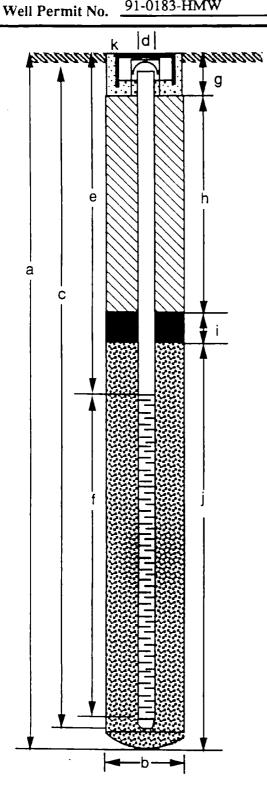


## MONITORING WELL DETAIL

Project Number Project Name County

3-30055-32	
Ultramar Station No. 700	
Sonoma	
91-0183-HMW	

Boring/Well No	MW-20	
Top of Casing Elev.	105.91	•
Ground Surface Elev.	106.36	_
Datum	Mean Sea Level	



### **EXPLORATORY BORING**

a.	Total depth	41	1/2	ft.
	Diameter	·	8	in.
	Drilling method	Hollow stem auger		

#### WELL CONSTRUCTION

c.	Casing length	33 1/2:	ft.
	Material Schedule 40 PVC	2	•••
d.	Diameter	2	in.
e.	Depth to top perforations	20	ft.
f.	Perforated length	13 1/2	ft.
	Perforated interval from 20	_to 33 1/2	ft.
	Perforation type Slot		
	Perforation size	0.02	in.
g.	Surface seal	1	ft.
	Seal material Concrete		
h.	Backfill	15	ft.
	Backfill material Cement		
i.	Seal	2 1/2	ft.
	Seal material Bentonite Pellets	<u> </u>	
j.	Gravel pack	15-1/2	ft.
	Pack material	2/12 sand	
k.	Water tight traffic rated vault be	ox	

Note: Hole caved bottom 2 feet. Material, packed by driller. Bentonite seal 4 feet.